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2 **Supplementary Figure 2: Structural analyses of the AdcAc domain.** (a) Cartoon representation  
3 of the AdcAc domain. The bound  $\text{Zn}^{2+}$  ions are shown as black spheres, with their coordinating  
4 residues shown as sticks. The coordinating  $\text{Cl}^-$  ion is shown as pink sphere. The coordination bonds  
5 are illustrated with dotted lines. (b) Superposition of the crystal structures of the AdcAc domain  
6 (yellow) with homologous proteins, *E. coli* ZinT (PDB accession code: 1OEK, dark blue), *S. enterica*  
7 ZinT (PDB accession code: 4AYH, pink). (c) Superposition of the crystal structure of the AdcAc  
8 domain from full-length AdcA (yellow) with the crystal structures of the AdcAc domain expressed  
9 on its own (metal-free, green;  $\text{Zn}^{2+}$ -bound, blue). The bound  $\text{Zn}^{2+}$  ions are shown as sphere with their  
10 colors matching the respective structures. The  $\text{Zn}^{2+}$  coordinating residues shown as sticks. The  
11 coordinating  $\text{Cl}^-$  ion is shown as a pink sphere.